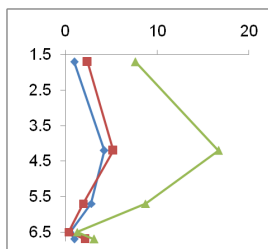
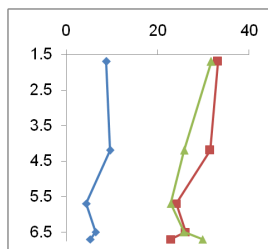


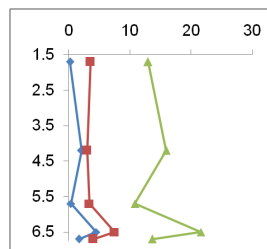
A



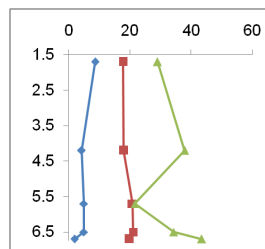
Calvin cycle (*cbbLS*)



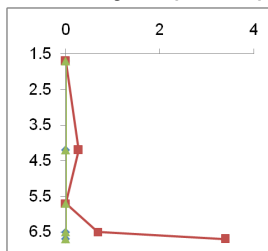
Respiration (*coxAC*)



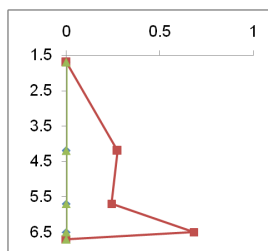
AAnP (*pufLM*)



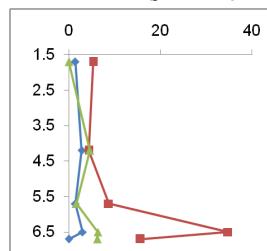
Rhodopsin



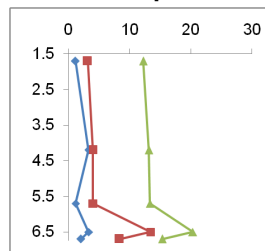
rTCA cycle (*acIAB*)



WL pathway (*cdhAB*)

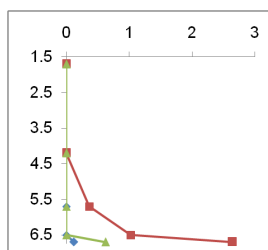


Fermentation (*ldh*)

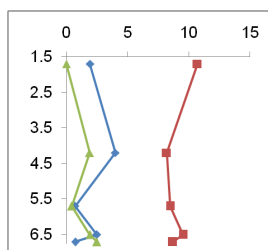


CO oxidation (*coxLMS*)

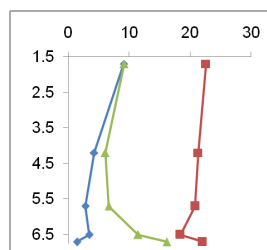
B



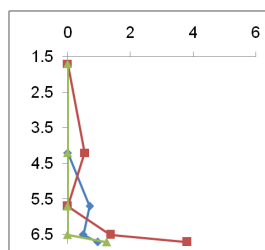
N fixation (*nifH,-D,-K*)



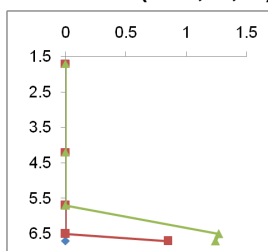
NO reduction (*norCB*)



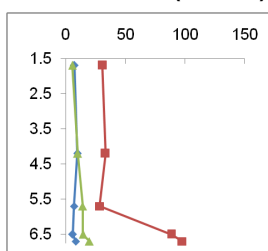
N₂O reduction (*nozB*)



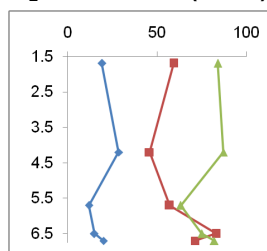
DNRA (*nrfA*)



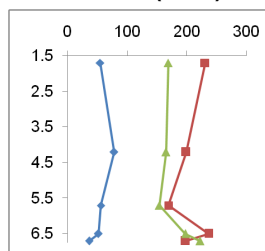
Dissimilatory N reduction (*hao-like*)



NO₃⁻ assimilation (*nasA*)

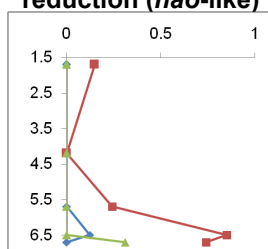


N mineralization/assimilation (*gdhA*)

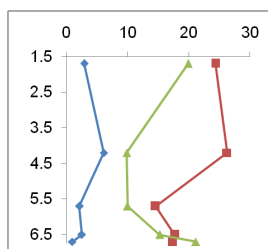


N assimilation (*glnB, gltBS*)

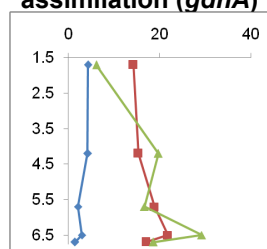
C



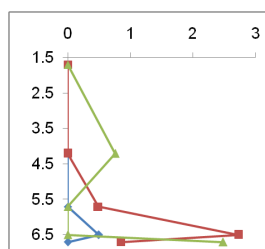
DSR (*dsrAB, aprAB*)



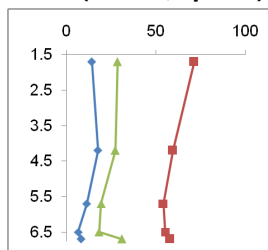
S oxidation (*soxAB*)



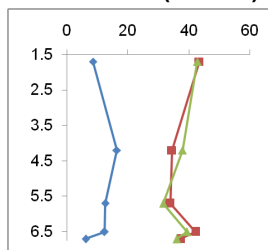
S oxidation (*soxCD*)



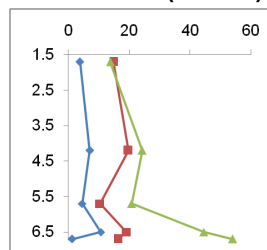
DMSO reduction (*dmsA*)



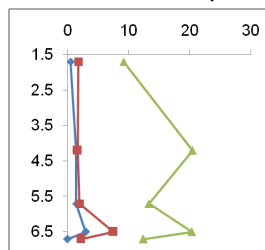
ASR (*cysCND*)



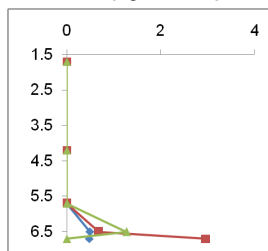
S mineralization (*sseA*)



DMSP cleavage (*dddD,-L,-P*)



DMSP demethylation (*dmdA*)



S⁻ oxidation to S (*sqrA*)